IN THE CLAIMS

Please amend Claims 1, 3-5, 12-13, 16-19, 22-24, and 29 as indicated.

1. (Currently Amended) A method comprising:

modeling ~~in a common representation~~ network element commands, events and data from a plurality of a same type of sources in a first modeling language;

translating data represented in ~~a~~ the first modeling language to data represented in a second modeling language;

storing the data in the second modeling language in a global data model repository; and

automatically generating code to support an external management interface based on the stored data in the global repository.

2. (Original) The method of claim 1 further comprising automatically generating system documentation based on the stored data.

3. (Currently Amended) The method of claim 2 wherein the generated system documentation corresponds to code generated to support ~~to support~~ an external management interface.

4. (Currently Amended) The method of claim 1 wherein the first modeling language is structured management information (SMI).

5. (Currently Amended) The method of claim 1 wherein the second modeling language is extensible markup language (XML).

6. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement a command line interface (CLI).

7. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement an Extensible Markup Language interface.

8. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement a Simple Network Management Protocol interface.

9. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to implement a configuration database.

10. (Previously Presented) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating to implement Simple Network Management Protocol subagents.

11. (Original) The method of claim 1 wherein automatically generating code for the external interface includes automatically generating code to assist in implementation of an Application Program Interface.

12. (Currently Amended) The method of claim 1 wherein modeling ~~operational system data from a plurality of sources~~ includes modeling run-time system data from a plurality of sources using at least one of the first modeling language and the second modeling language.

13. (Currently Amended) A system comprising:

a global repository;

~~an~~ a first interface to a plurality of sources, the first interface being communication with the global repository; and

~~an~~ a second interface to an external interface, ~~with~~ the second interface being in communication with the global repository, wherein the global repository is configured to:

model ~~in a common representation~~ network element commands, events and data from a plurality of a same type of sources in a first modeling language;

translate data represented in a the first modeling language to data represented in a second modeling language;

store the data in the second modeling language in the global data model repository; and

automatically generate code to support an external management interface code development based on the stored data in the global repository.

14. (Original) The system of claim 13 further configured to automatically generate system documentation based on the stored data.

15. (Original) The system of claim 14 wherein the generated system documentation corresponds to a code generated implementation.

16. (Currently Amended) The method of claim 13 wherein the first modeling language is structured management information (SMI).

17. (Currently Amended) The method of claim 13 wherein the second modeling language is extensible markup language (XML).

18. (Currently Amended) The method of claim 13 wherein the global repository is further configured to model operational system data from a plurality of sources using at least one of the first modeling language and the second modeling language.

19. (Currently Amended) A computer program product, tangibly embodied in an information carrier, for executing instructions on a processor, the computer program product being operable to cause a machine to:

model ~~in a common representation~~ network element commands, events and data from a plurality of a same type of sources in a first modeling language;

translate data represented in a the first modeling language to data represented in a second modeling language;

store the data in the second modeling language in a global data model repository; and

automatically generate code to support an external management interface code development based on the stored data in the global repository.

20. (Original) The computer program product of claim 19 further configured to automatically generate system documentation based on the stored data.

21. (Previously Presented) The computer program product of claim 20 wherein the generated system documentation corresponds to the generated code.

22. (Currently Amended) The computer program product of claim 19 wherein the first modeling language is structured management information (SMI).

23. (Currently Amended) The computer program product of claim 19 wherein the second modeling language is extensible markup language (XML).

24. (Currently Amended) The computer program product of claim 19 wherein the global repository is further configured to model operational system data from a plurality of sources using at least one of the first modeling language and the second modeling language.

25. (Previously Presented) The computer program product of claim 19 wherein the instructions to cause a machine to automatically generate code for the external interface include instructions to cause a machine to automatically generate code to implement a command line interface (CLI).

26. (Previously Presented) The computer program product of claim 19 wherein the instructions to cause a machine to automatically generate code for the external interface include instructions to cause a machine to automatically generate code to implement a configuration database.

27. (Original) The computer program product of claim 19 wherein the instructions to cause a machine to automatically generate code for the external interface include instructions to cause a machine to automatically generate code to implement SNMP subagents.

28. (Previously Presented) The computer program product of claim 19 wherein the instructions to cause a machine to automatically generate code for the external interface include instructions to cause a machine to automatically generate code to implement an API.

29. (Currently Amended) The computer program product of claim 24 wherein instructions to cause a machine to model operational system data from a plurality of sources include instructions to cause a machine to model operational system data from a plurality of sources using at least one of the first modeling language and the second modeling language.